Performance Data Sheet

RKA5513EXD

General Information

Model	RKA5513EXD	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4860	4540					
	Watts	564	624					
	Amps	2.33	2.55					
	Lb/h	62.4	60.8					
-10	Btu/h	5370	5030	4710				
	Watts	578	641	703				
	Amps	2.38	2.63	2.90				
	Lb/h	68.7	67.0	65.4				
-5	Btu/h	5980	5610	5260	4920			
	Watts	593	659	724	789			
	Amps	2.43	2.71	3.00	3.30			
	Lb/h	76.1	74.3	72.6	70.9			
0	Btu/h	6680	6280	5900	5530	5160		
	Watts	607	676	745	814	883		
	Amps	2.48	2.79	3.11	3.43	3.76		
	Lb/h	84.5	82.6	80.8	79.0	77.3		
5	Btu/h	7480	7040	6620	6220	5810		
	Watts	621	694	766	838	912		
	Amps	2.53	2.87	3.21	3.56	3.91		
	Lb/h	94.0	92.0	90.1	88.2	86.4		
10	Btu/h	8370	7900	7440	6990	6550	6110	5680
	Watts	636	711	786	862	940	1020	1100
	Amps	2.59	2.95	3.31	3.68	4.05	4.44	4.84
	Lb/h	105	102	100	98.5	96.5	94.6	92.6
15	Btu/h	9350	8840	8340	7850	7360	6880	6400
	Watts	651	728	806	886	967	1050	1140
	Amps	2.64	3.03	3.41	3.80	4.19	4.60	5.01
	Lb/h	116	114	112	110	108	106	104
20	Btu/h	10400	9870	9330	8790	8260	7730	7210
	Watts	666	745	826	909	994	1080	1170
	Amps	2.70	3.11	3.51	3.92	4.33	4.75	5.18
	Lb/h	129	126	124	122	120	118	116

25	Btu/h	11600	11000	10400	9830	9250	8670	8090
	Watts	681	762	845	931	1020	1110	1210
	Amps	2.76	3.18	3.61	4.03	4.46	4.89	5.34
	Lb/h	142	140	138	135	133	131	129
30	Btu/h	12900	12200	11600	10900	10300	9680	9040
	Watts	696	778	864	953	1040	1140	1240
	Amps	2.83	3.26	3.70	4.14	4.58	5.03	5.49
	Lb/h	157	154	152	150	148	145	143
35	Btu/h	14200	13500	12800	12100	11500	10800	10100
	Watts	711	795	883	974	1070	1170	1270
	Amps	2.89	3.34	3.79	4.24	4.70	5.16	5.63
	Lb/h	172	170	168	165	163	160	158
40	Btu/h	15700	14900	14200	13400	12700	11900	11200
	Watts	726	811	901	994	1090	1190	1300
	Amps	2.95	3.42	3.88	4.35	4.81	5.28	5.76
	Lb/h	189	186	184	182	179	177	174
45	Btu/h	17200	16400	15600	14800	14000	13200	12400
	Watts	742	828	919	1010	1110	1220	1330
	Amps	3.02	3.50	3.97	4.44	4.92	5.40	5.89
	Lb/h	206	204	202	199	197	194	191
50	Btu/h	18900	18000	17100	16300	15400	14500	13700
	Watts	757	844	936	1030	1140	1240	1360
	Amps	3.09	3.58	4.06	4.54	5.02	5.51	6.00
	Lb/h	225	222	220	217	215	212	209
55	Btu/h	20600	19700	18800	17800	16900	16000	15000
	Watts	773	860	953	1050	1160	1270	1390
	Amps	3.16	3.65	4.14	4.63	5.12	5.61	6.11
	Lb/h	244	242	239	237	234	231	229

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.071855E+04	4.968738E-01	-2.386397E-01	1.063867E+02
C2	1.928442E+02	2.017744E+00	-3.636591E-02	1.877385E+00
C3	-6.274920E+01	8.514902E+00	3.977433E-02	-3.839500E-01
C4	2.317152E+00	4.017254E-02	3.126945E-04	2.011817E-02
C5	-4.370468E-01	-3.220575E-02	6.437827E-04	-4.419801E-04
C6	1.870545E-01	-1.561075E-02	-1.099250E-04	1.778795E-03
C7	2.542760E-04	4.216636E-06	3.301976E-09	-1.463798E-05
C8	-5.578840E-03	-4.750809E-04	-3.491111E-06	1.198858E-05
C9	-1.285337E-03	5.378059E-04	-7.180827E-07	-8.022261E-06
C10	-4.155294E-04	4.930486E-05	4.677627E-07	-4.989559E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature